

AbstractA Structured Peptide Scaffold for Displaying Turn Libraries on Phage

5 The invention is directed to a model system for structure-activity analysis of peptide or protein
molecules involved in important biological processes. Provided by the invention are combinatorial peptide
libraries comprising disulfide-constrained cyclic peptides with sequences favorable for energy stabilized
conformations. A preferred embodiment of the invention is directed to peptides containing β -turn tetrapeptide
that form structured β -hairpin scaffold in solution. Methods of selecting and using such peptides are provided
herein, which are useful for mimicking in vivo molecular interactions and designing therapeutic agents. Thus,
10 the invention has profound utility for biological studies and drug development.

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